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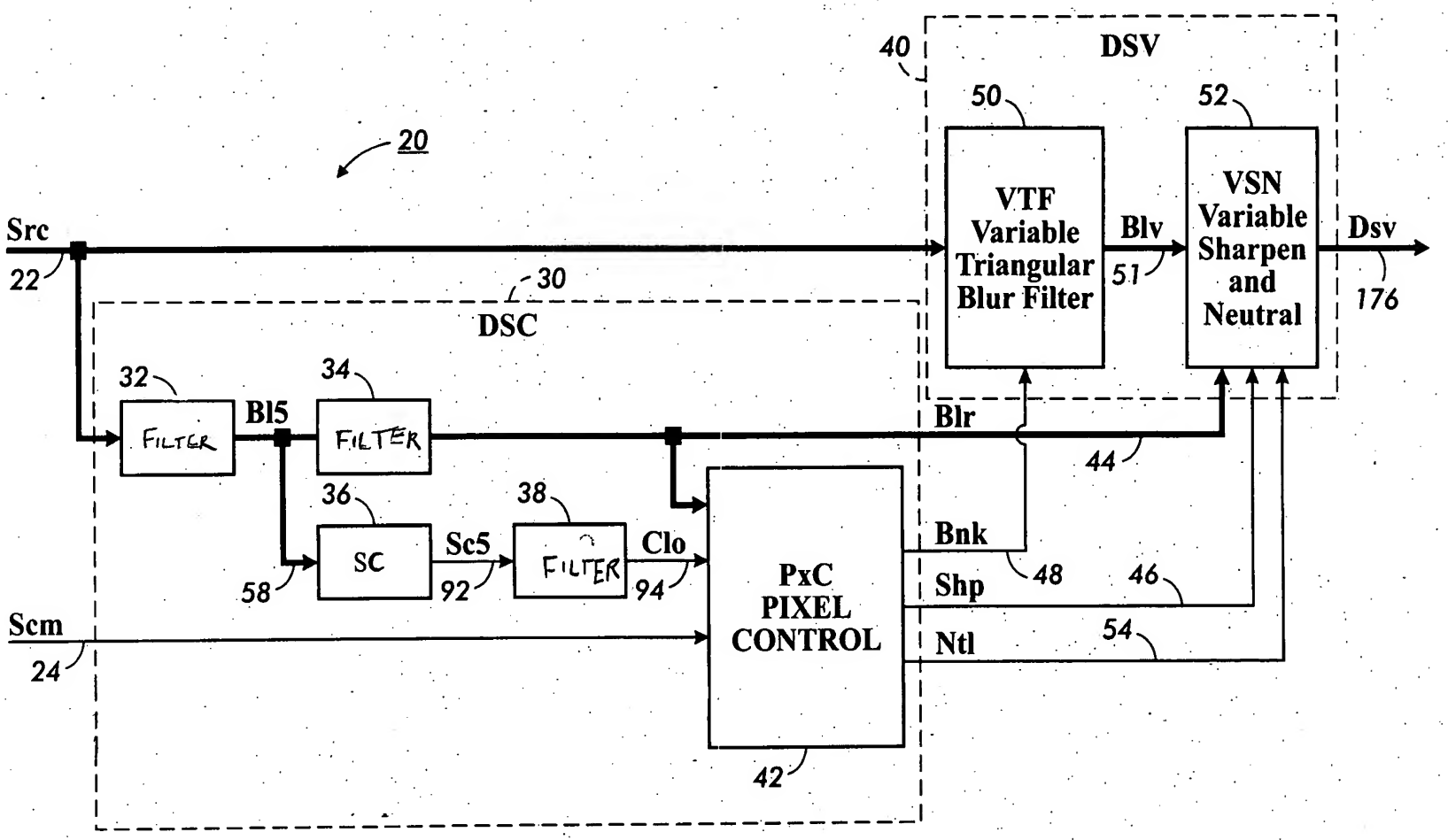
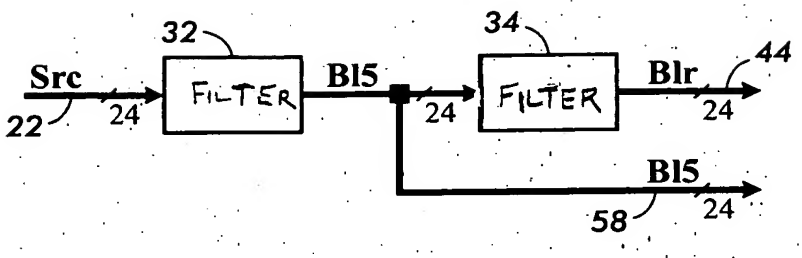

20
Src
22
30
DSC
32
FILTER
Bl5
34
FILTER
36
SC
58
Sc5
92
38
FILTER
Clo
94
Scm
24
PxC
PIXEL
CONTROL
42
40
DSV
50
VTF
Variable
Triangular
Blur Filter
Blv
51
52
VSN
Variable
Sharpen
and
Neutral
Dsv
176
Blr
44
Bnk
48
Shp
46
Ntl
54

FIG. 1

FIG. 2



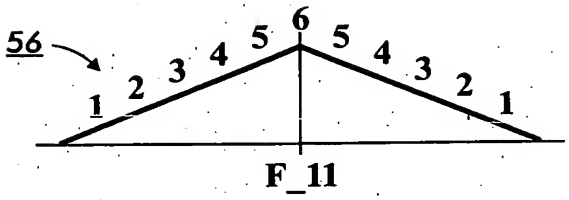


FIG. 3

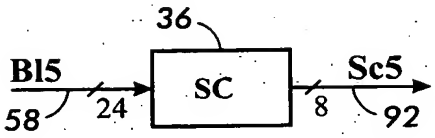
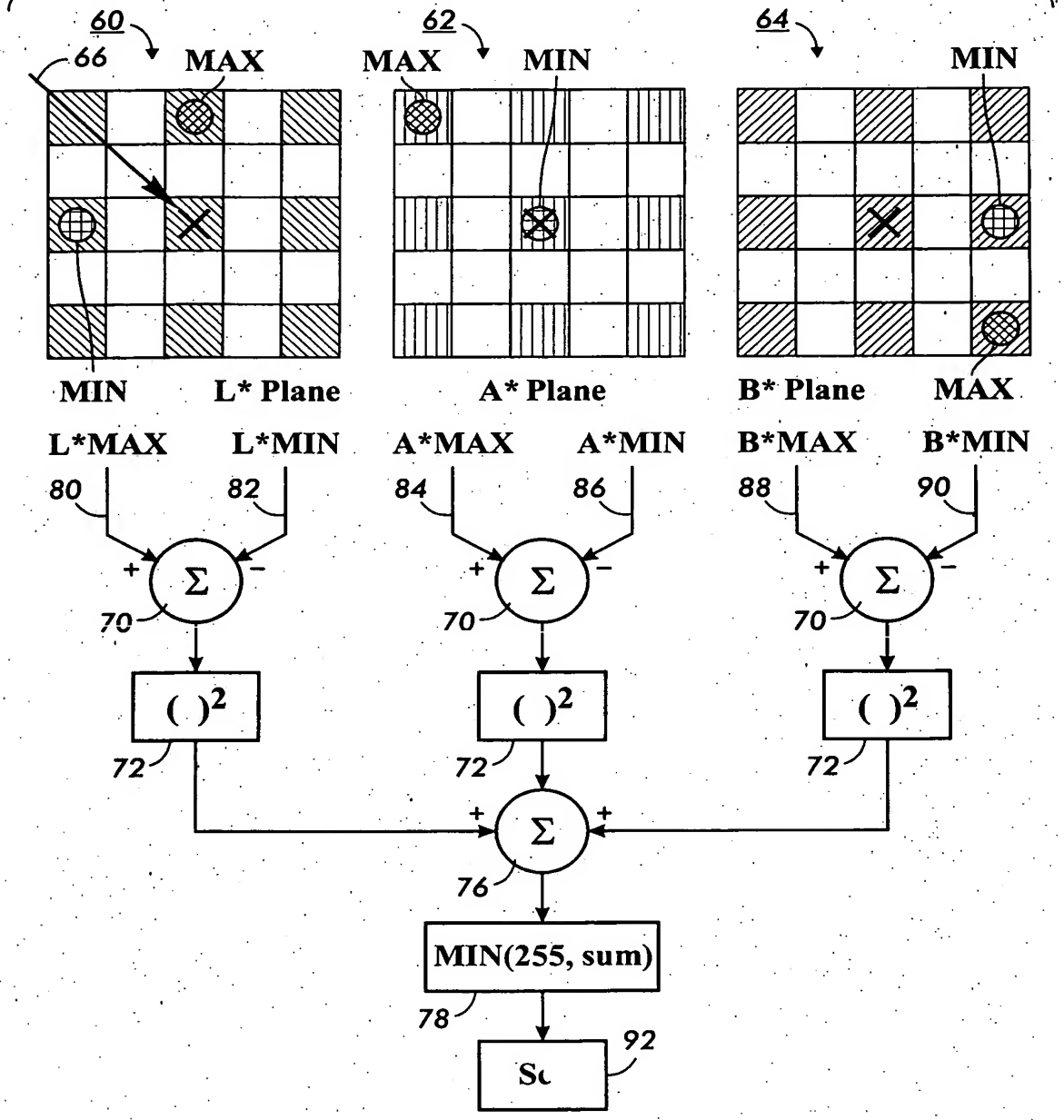


FIG. 4

FIG. 5


60
66
MAX
MIN
L* Plane
62
MAX
MIN
A* Plane
64
MIN
B* Plane
MAX
L*MAX
L*MIN
A*MAX
A*MIN
B*MAX
B*MIN
80
82
84
86
88
90
+
Σ
−
70
( )2
72
76
MIN(255, sum)
78
Sc
92

38
Sc5
8
FILTER
8
Clo
92
94

FIG. 6

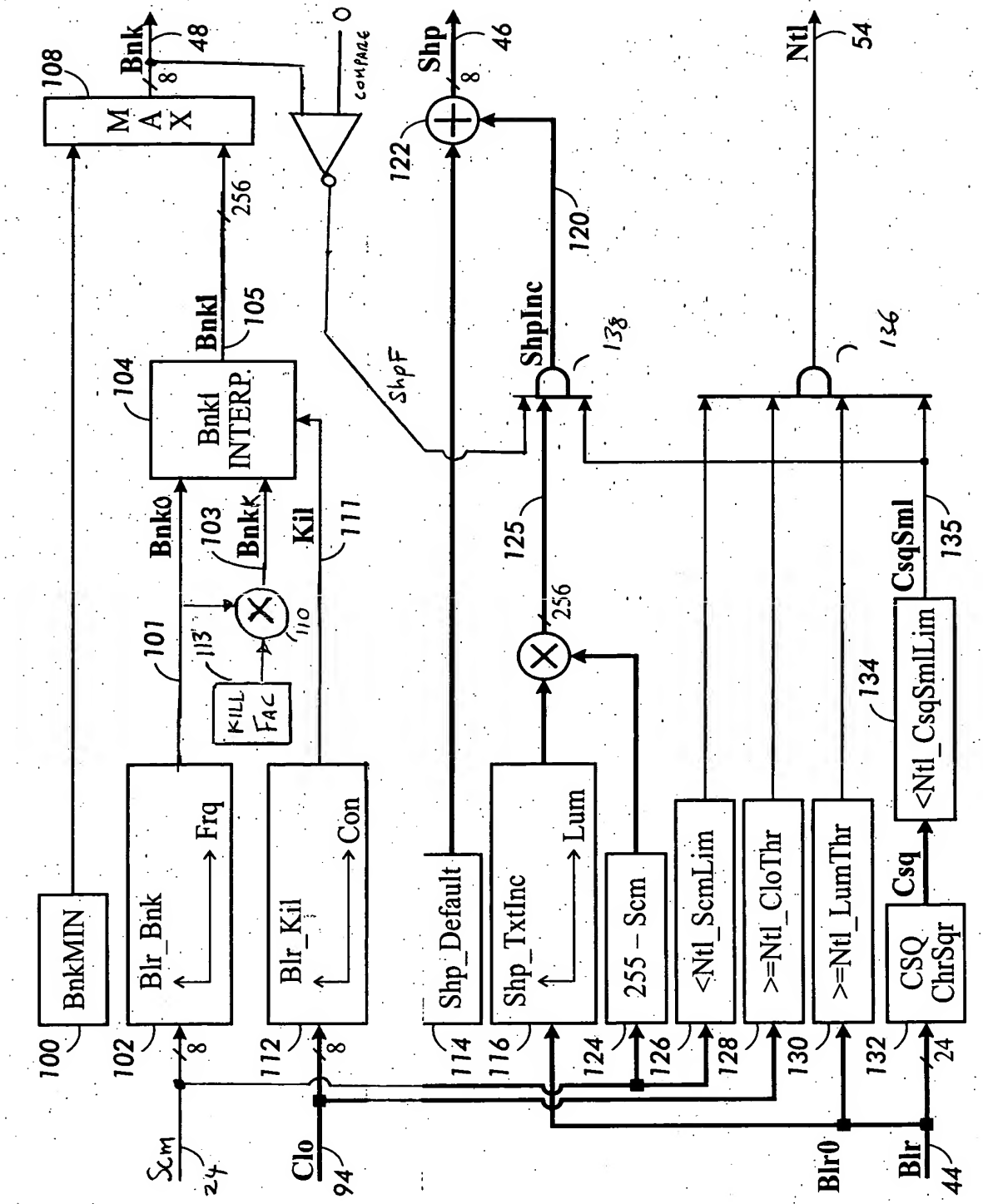

BnkMIN
100
Blr_Bnk
Frq
102
8
Scm
24
Blr_Kil
Con
112
8
Clo
94
KILL FAC
113
101
Bnk0
103
BnkK
110
Kil
111
BnkI INTERP.
104
BnkI
105
256
MAX
108
Bnk
8
48
0
compare
ShpF
Shp_Default
114
Shp_TxtInc
Lum
116
255 – Scm
124
126
Shp
8
46
122
120
ShpInc
138
125
256
<Ntl_ScmLim
128
>=Ntl_CloThr
130
>=Ntl_LumThr
132
Blr0
CSQ ChrSqr
Csq
24
Blr
44
<Ntl_CsqSmlLim
134
CsqSml
135
Ntl
54
136

FIG. 7

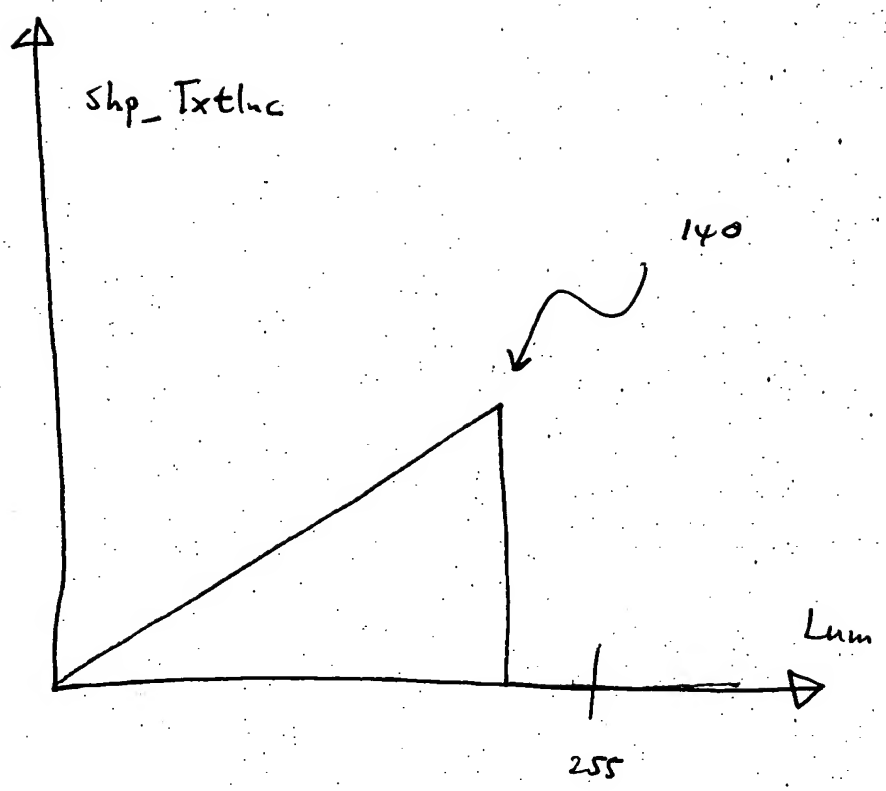
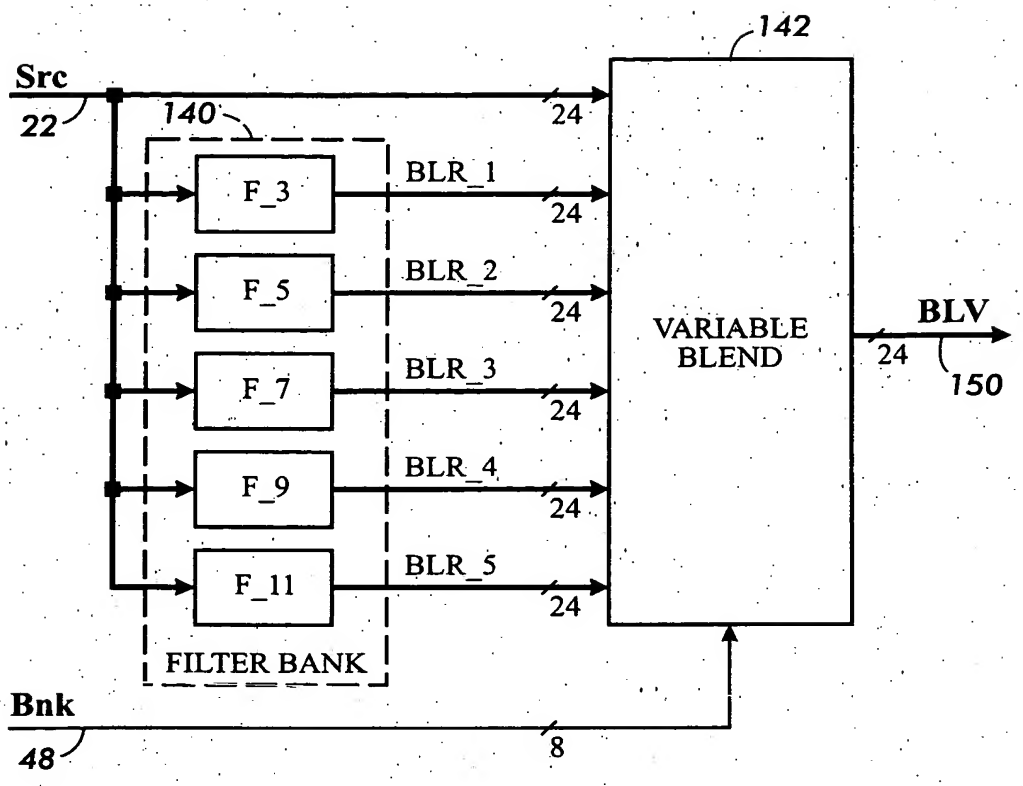


Fig. 8

FIG. 9


142
Src
22
140
24
F_3
BLR_1
24
F_5
BLR_2
24
F_7
BLR_3
24
F_9
BLR_4
24
F_11
BLR_5
24
FILTER BANK
VARIABLE BLEND
BLV
24
150
Bnk
48
8

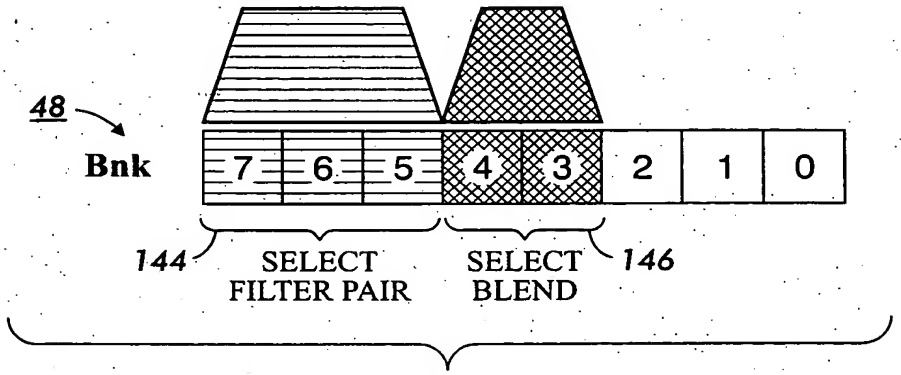
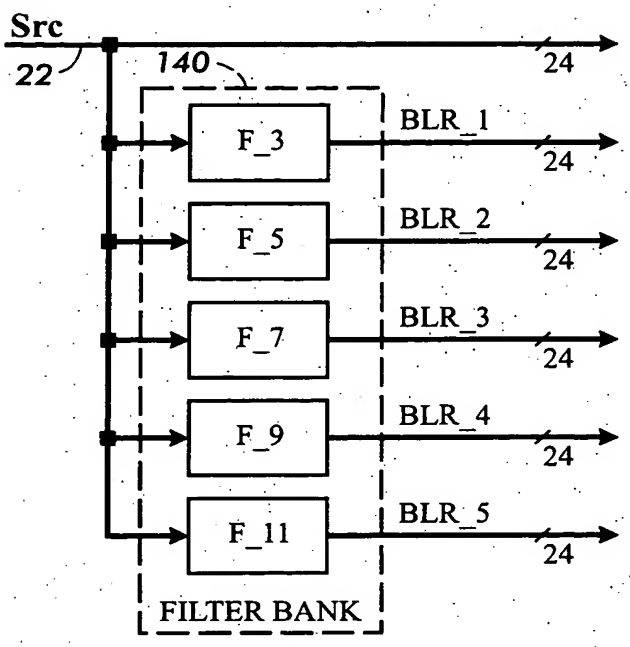

48
Bnk
7
6
5
4
3
2
1
0
144
SELECT FILTER PAIR
SELECT BLEND
146

FIG. 10

FIG. 11



160

Bnk bit 7	Bnk bit 6	Bnk bit 5	Bank Select
0	0	0	Src and Blr_1
0	0	1	Blr_1 and Blr_2
0	1	0	Blr_2 and Blr_3
0	1	1	Blr_3 and Blr_4
1	0	0	Blr_4 and Blr_5
1	0	1	Blr_5
1	1	0	INVALID
1	1	1	INVALID

FIG. 12

FIG. 13

162

Filter Index	Filter Width	Filter 1D Wt.	Filter 2D Wt.	Factor	Shift for 11 bit precision
0	1	1	1	1	<<3
1	3	4	16	1	>>1
2	5	9	81	809	>>13
3	7	16	256	1	>>5
4	9	25	625	839	>>16
5	11	36=9*4	1296=81*16	809	>>17

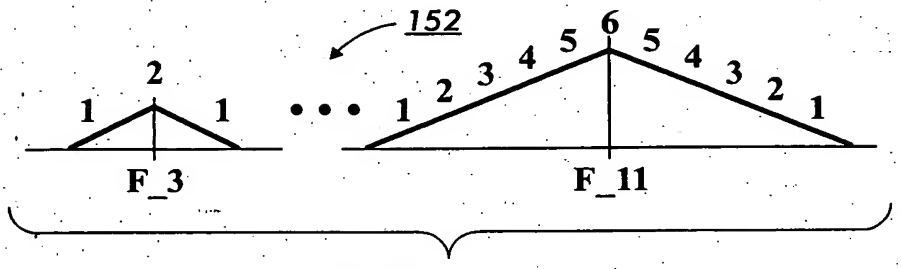


FIG. 14

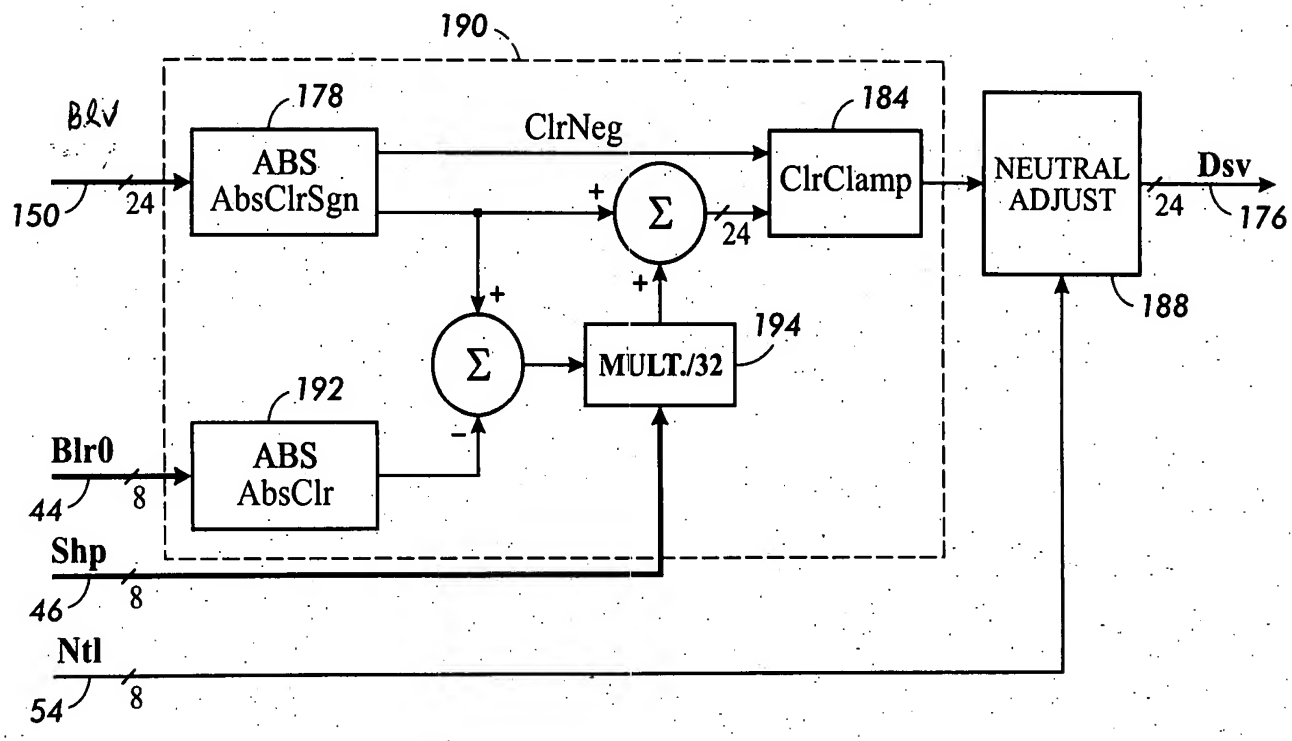

190
BLV
178
ABS
AbsClrSgn
ClrNeg
184
ClrClamp
NEUTRAL
ADJUST
Dsv
176
150
24
24
24
Σ
+
+
+
Σ
−
MULT./32
194
188
192
ABS
AbsClr
Blr0
44
8
Shp
46
8
Ntl
54
8

FIG. 15